
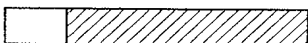
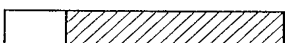
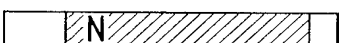
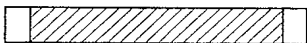
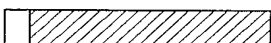
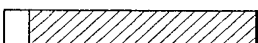
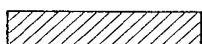

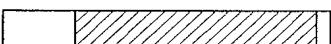
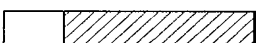

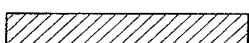
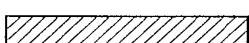
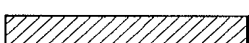


<u>Binding Domain Hybrid</u>		<u>Activation Domain Hybrid</u>	
Fas		Sentrin	
	wt (191–319AA)	++	
	Δ 15 (191–304AA)	++	
	Δ 23 (191–296AA)	–	
	(V238N)	–	
TNFR1			
	wt (326–426AA)	++	
	Δ 14 (326–412AA)	++	
	Δ 20 (326–406AA)	–	
CD40			
	(216–277AA)	–	
FADD/MORT1			
	(1–208AA)	–	
<u>Activation Domain Hybrid</u>		<u>Binding Domain Hybrid</u>	
Sentrin		Fas (191–319AA)	
	(1–101AA)	++	
	(1–70AA)	–	
	(1–23AA)	–	
	(24–97AA)	–	
Ubiquitin		(1–76AA)	–
Nedd8		(1–76AA)	–

**FIG. 1A**

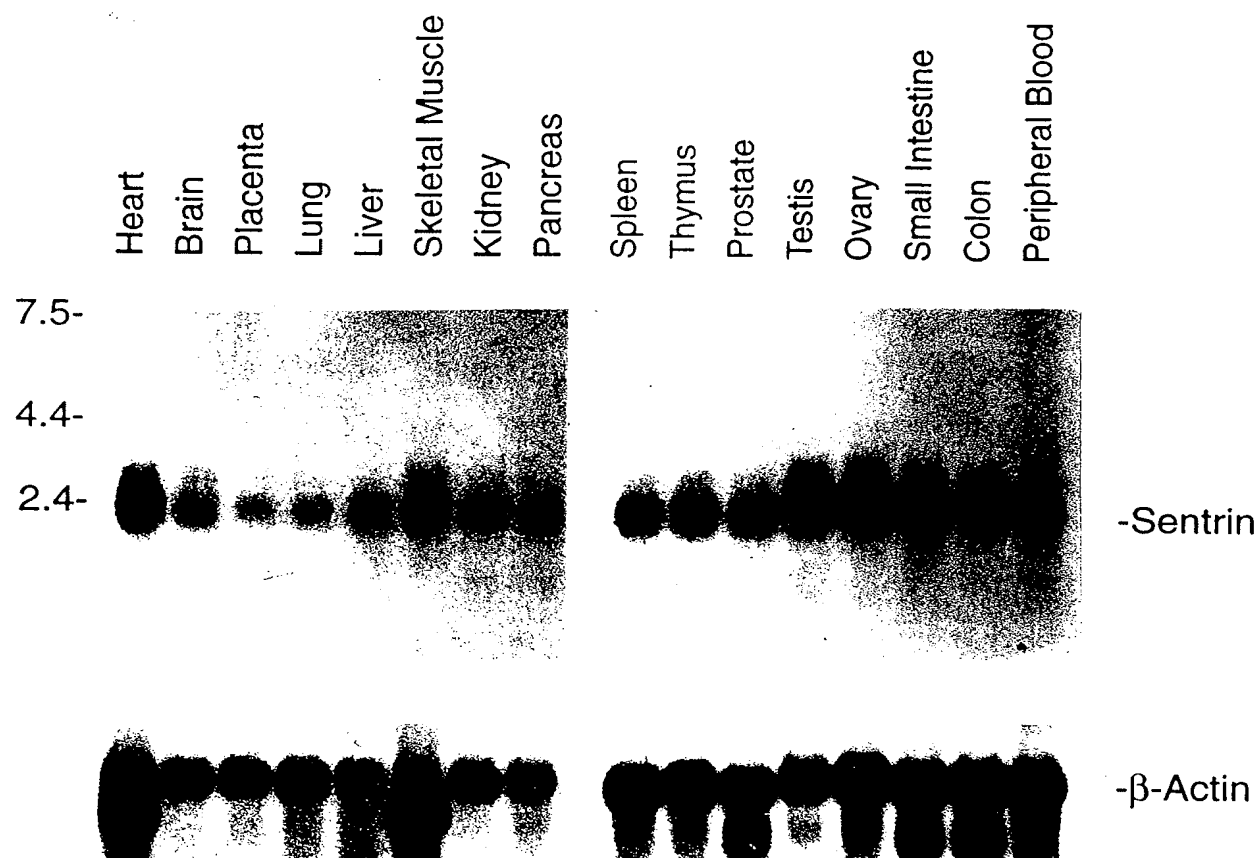


FIG.1B

CGAGGCGTAGCGGAAGTTACTGCAGCCGCGGTGTTGTGCTGT  
CGGGAAGGGGAAGGATTTGTAAACCCCGGAGCGAGGTTCTGC  
TTACCCGAGGCCGCTGCTGTGCGGAGACCCCGGGTGAAGCC  
ACCGTCATCATGTCTGACCAGGAGGCCAAAACCTTCAACTGAG  
M S D Q E A K P S T E  
GACTTGGGGGATAAGAAGCAAGGTGAATATATTAACTCAAA  
D L G D K K E G E Y I K L K  
GTCATTGGACAGGATAGCAGTGAGATTCACTTCAAAGTGAAA  
V I G Q D S S E I H F K V K  
ATGACAACACATCTCAAGAACTCAAAGAATCATACTGTCAA  
M T T H L K K L K E S Y C Q  
AGACAGGGTGTTCCAATGAATTCCTCAGGTTTCTCTTTGAG  
R Q G V P M N S L R F L F E  
GGTCAGAGAATTGCTGATAATCATACTCCAAAAGAACTGGGA  
G Q R I A D N H T P L E L G  
ATGGAGGAAGAAGATGTGATTGAAGTTTATCAGGAACAAACG  
M E E E D V I E V Y Q E Q T  
GGGGGTCATTCAACAGTTTAGATATTCTTTTTTATTTTTTTTC  
G G H S T V \*101  
TTTTCCCTCAATCCTTTTTTTATTTTTTAAAAATAGTTCTTTTC  
TAATGTGGTGTTCAAACGGAATTGAAAACCTGGCACCCCATC  
TCTTTGAAACATCTGGTAATTTGAATTCTAGTGCTCATTATT  
CATTATTGTTTGTTCATTGTGCTGATTTTTTGGTGATCAAG  
CCTCAGTCCCCTTCATATTACCCTCTCCTTTTTTAAAAATTAC  
GTGTGCACAGAGAGGTCACCTTTTTTCAGGACATTGCATTTTC  
AGGCTTGTGGTGATAAATAAGATCGACCAATGCAAGTGTTCA  
TAATGACTTTCCAATTGGCCCTGATGTTCTAGCATGTGATTA  
CTTCACTCCTGGACTGTGACTTTTCAGTGGGAGATGGAAGTTT  
TTCAGAGAACTGAACTGTGGAAAAATGACCTTTCCTTAACTT  
GAAGCTACTTTTAAAATTGAGAGTAATGACTAACTCCAAAGA  
TGGCTTCACTGAAGAAAAGGCATTTTAAAGATTTTTTAAAAAT  
CTTGTCAGAAGATCCCAGAAAAGTTCTAATTTTCATTAGCAA

FIG. 2A-1

TTAATAAAGCTATACATGCAGAAATGAATACAACAGAACACT  
GCTCTTTTTTGATTTTATTTGTACTTTTTTGGCCTGGGATATGG  
GTTTTAAATGGACATTGTCTGTACCAGCTTCATTAAAATAAA  
CAATATTTGTCAAAAATCGTACTAATGCTTATTTTATTTTAA  
TTGTATAGAAAGAAAAAAATGCCTAAAATAAGGTTTTCTTGC  
ATAAATACTGGAAATTGCACATGGTACAAAAAAAATGCCT  
AAATTACTGTACAGGGATGATGTTAATGACTTTGGAGCACTG  
AAAGTTACTGAAGTGCCTTCTGAATCAAGGATTTAATTAAGG  
CCACAATACCTTTTTTAATACTCAGTGTTCTGTTTTTTTTTAAA  
AACTTGATATTCCCGTATGGTGCATATTTGATACAGGTACCC  
AATCATGTTGGATAAATGGGCATGCCAGCC

FIG. 2A-2

Sentrin	MSD	QEAKPST EDLGDKKEGE	YIKLKVIGQD SSEIHFKVKM	40
SMT3	MSDSEVNQEAKPEV	KP-EVKPETH	-INLKV-SDG SSEIFFKIKK	
Ubiquitin			MQIFVKTLT GKTITLEVEP	
Nedd-8			MLIKVKTLT GKEIEIDIEP	
Sentrin			41	60
SMT3			TTHLKKLKES YCQRQGVP MN	
Ubiquitin			TTPLRRLMEA FAKRQ GKEMD	
Nedd-8			SDTIENVKAK IQDKEGIPPD	
BAG-1			TDKVERIKER VEEKEGIPPQ	
			---VQDLAQL VEEATGVPLP	
Sentrin			61	80
SMT3			SLRFLFEGQR IADNHTPKEL	
Ubiquitin			SLRFLYDGIT IQADQTPEDL	
Nedd-8			QQRLIFAGKQ LEDGRTLSDY	
BAG-1			QQRLIYSGKQ MNDEKTAADY	
			FQKLIFKGKS LKE-----	
Sentrin			81	100
SMT3			GMEEDVIEV YQEQTGGHST V	
Ubiquitin			DMEDNDIEA HREQIGGATY	
Nedd-8			NIQESTLHL VLRLRG	
			KILGGSVLHL VLALRGG	

FIG. 2B

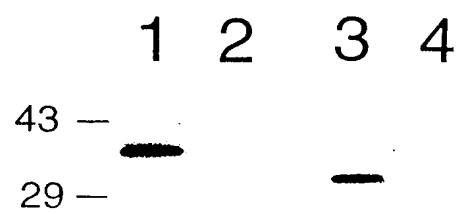


FIG.3

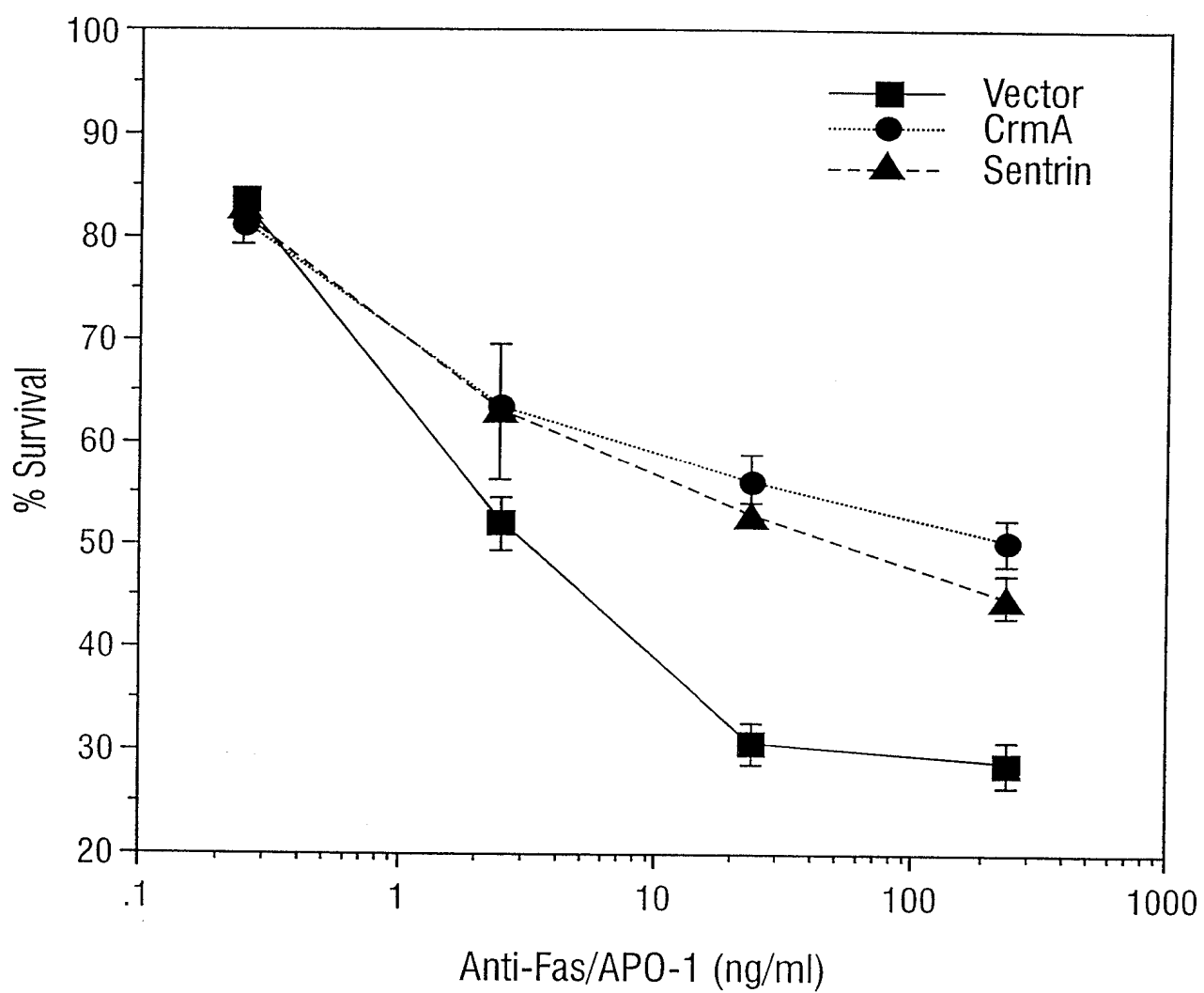


FIG. 4A

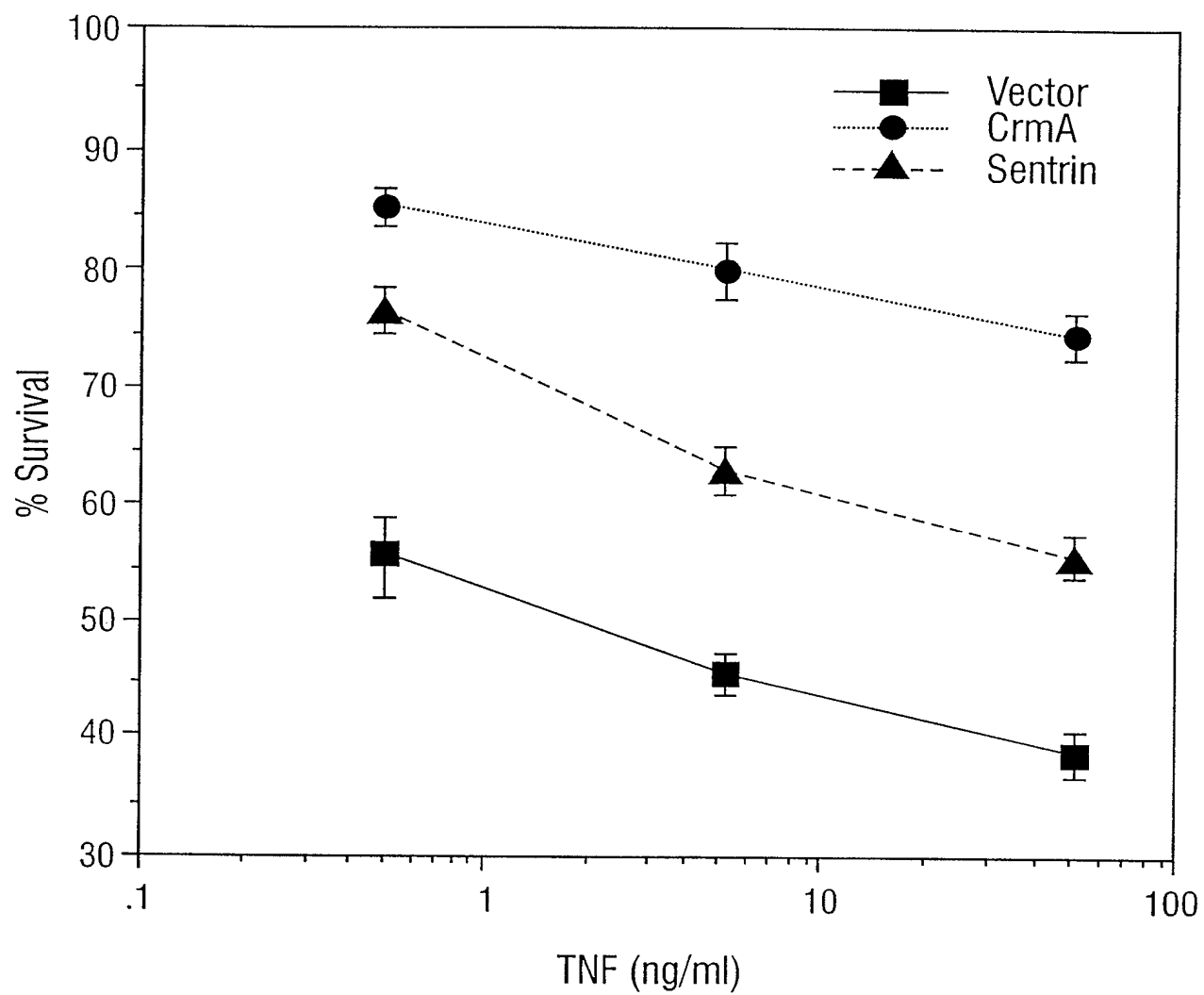
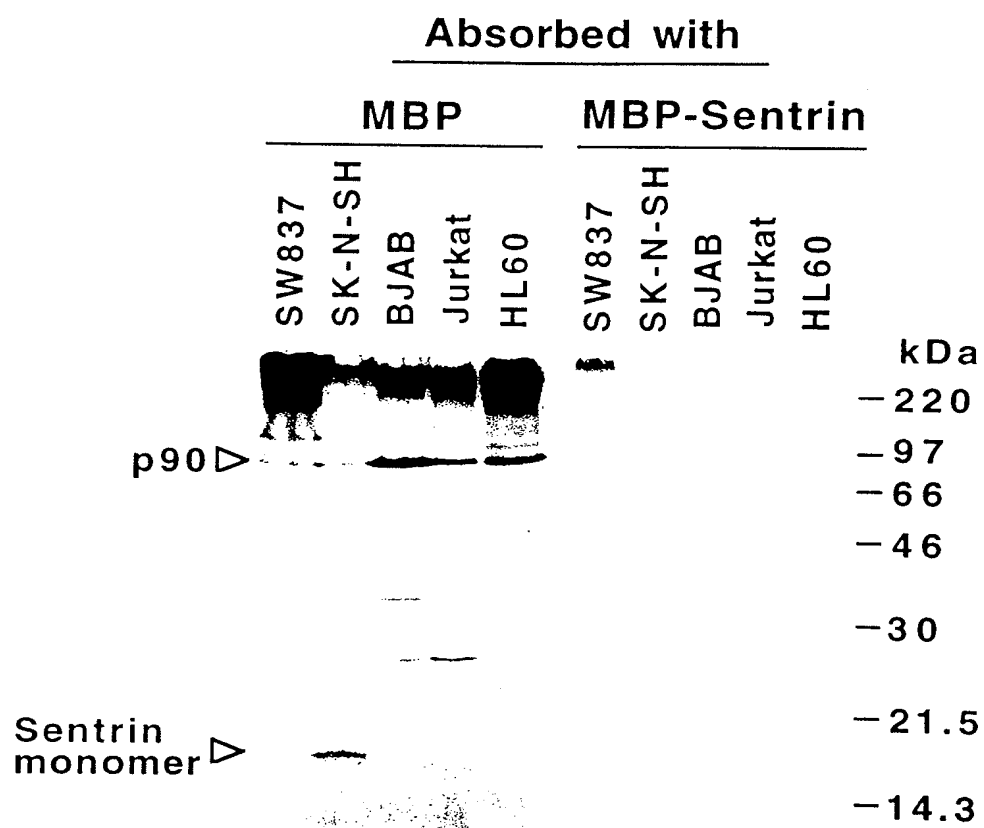


FIG. 4B





**FIG.5**

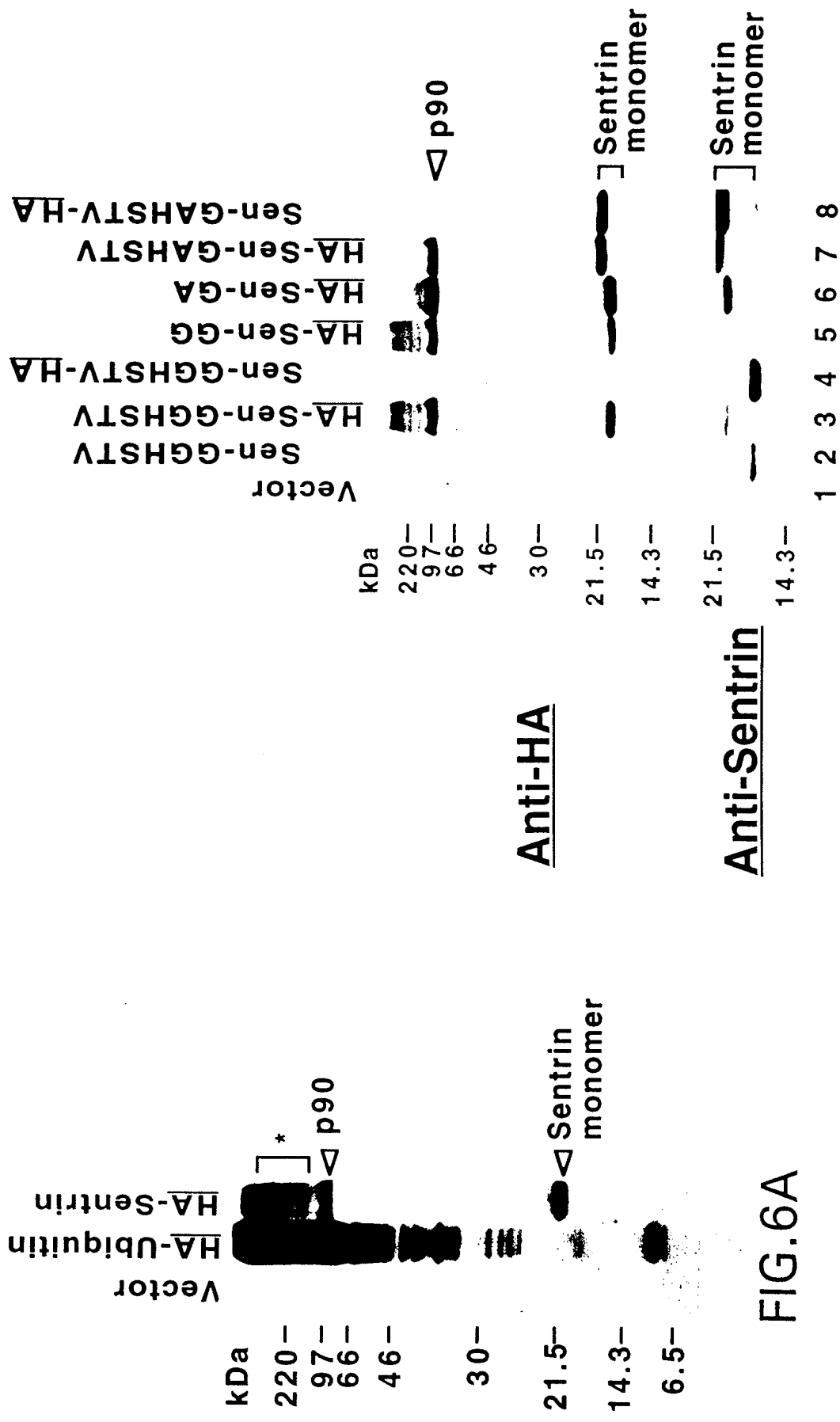


FIG. 6B

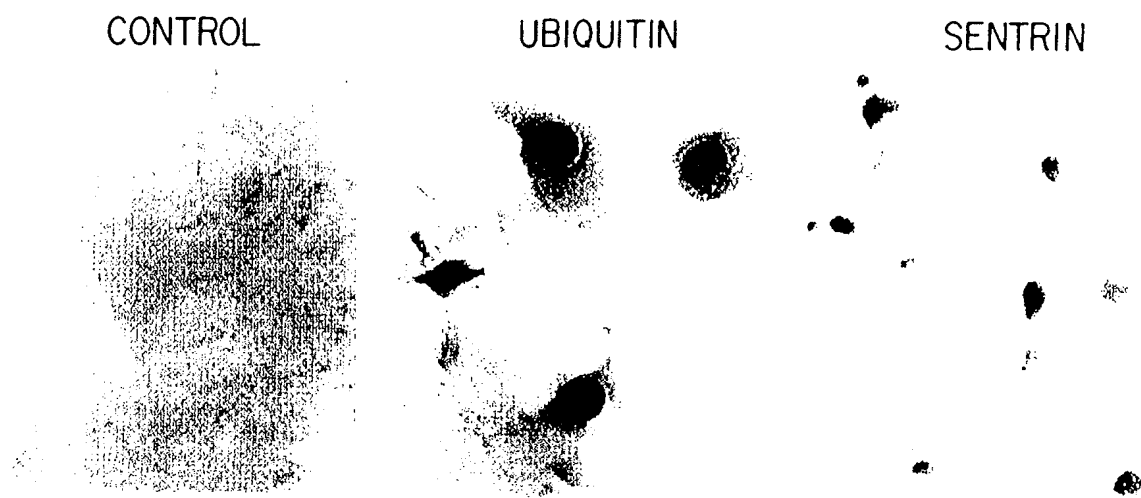


FIG.7A

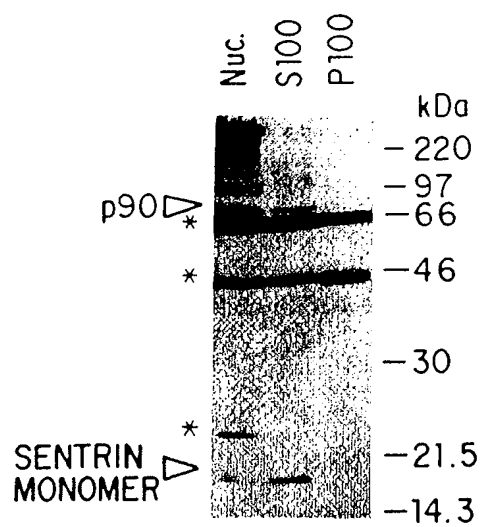


FIG.7B

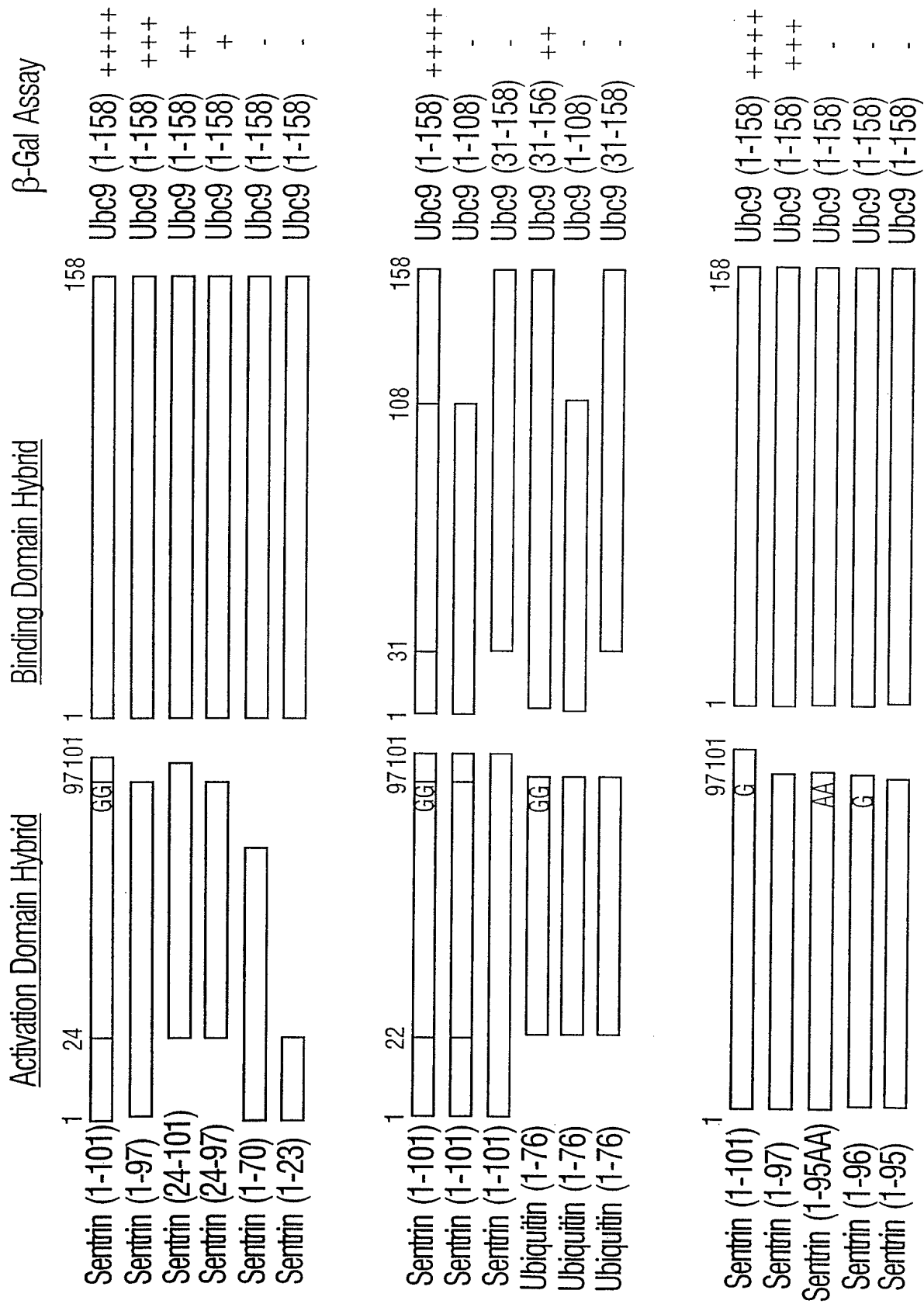


FIG. 8

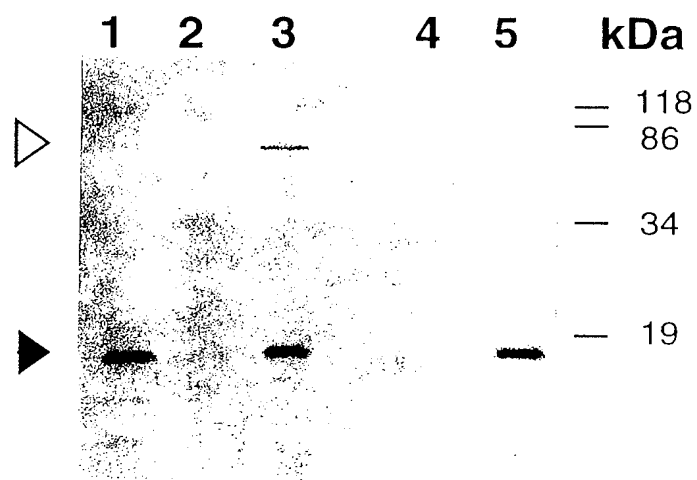


FIG.9

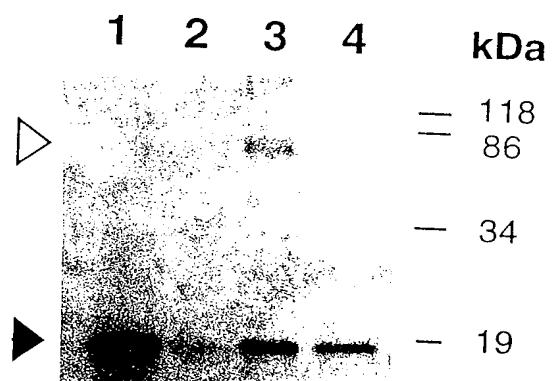


FIG.10

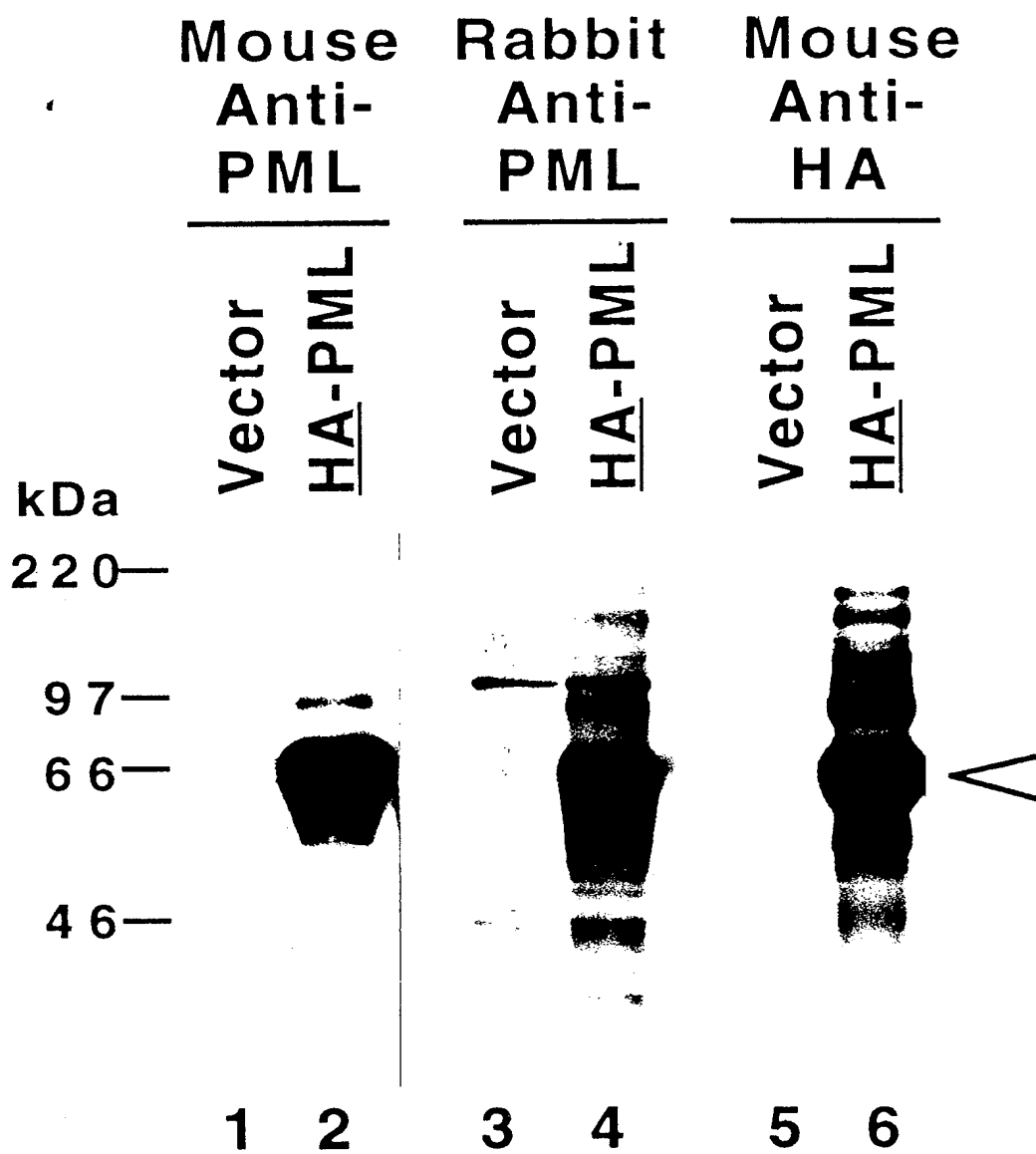


FIG.11A

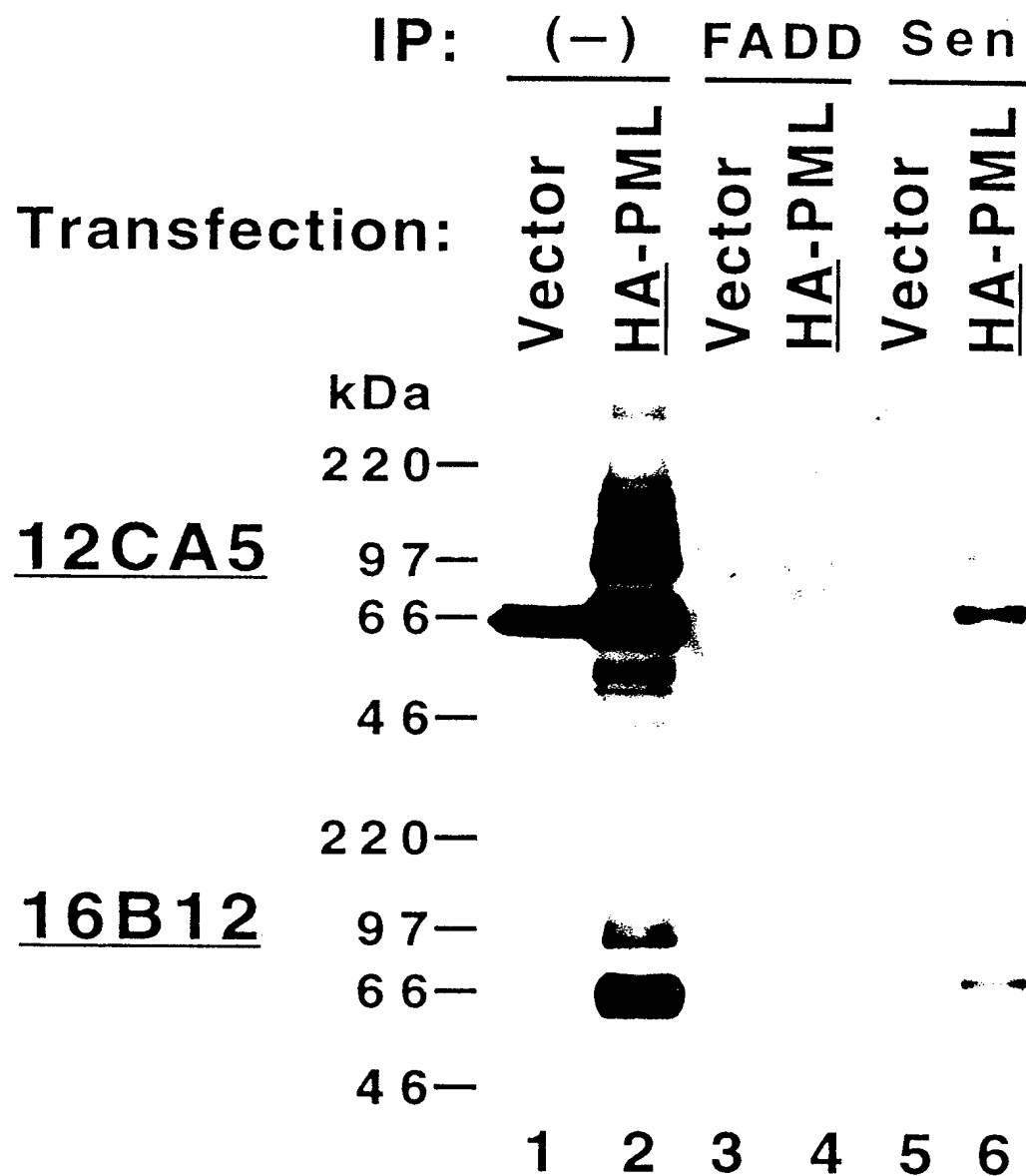


FIG.11B

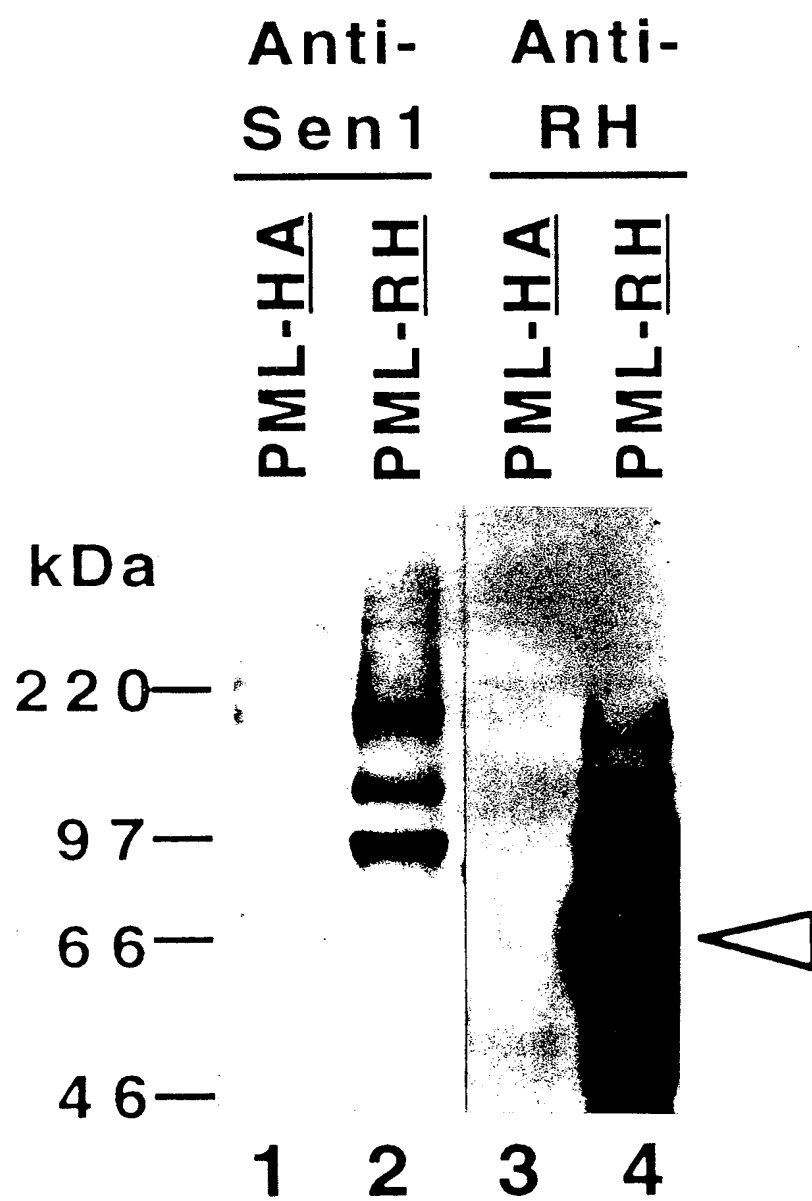


FIG.11C



Sentrin-1 (1-30)	MSDQEA KPST	EDLGDKKEGE	-YIKLKVIGQD
Sentrin-2 (1-26)	MAD-E-KPK-	E--GVKTENN	DHINLKVAGQD
Sentrin-3 (1-25)	MSE-E-KPK-	E--GVKTEN-	DHINLKVAGQD
NEDD8 (1-9)			MLIKVKTLT
Ubiquitin (1-9)			MQIFVKTLT
Sentrin-1 (31-60)	SSEIHFKVKM	TTHLKKLKE	YCQRQGVPMN
Sentrin-2 (27-56)	GSVVQFKIKR	HTPLSKLMKA	YCERQGLSMR
Sentrin-3 (26-55)	GSVVQFKIKR	HTSLSKLMKA	YCERQGLSMR
NEDD8 (10-39)	GKEIEIDIEP	TDKVERIKER	VEEKEGIPPO
Ubiquitin (10-39)	GKTITLLEVP	SDTIENVKAK	IQDKEGIPPD
Sentrin-1 (61-90)	SLRFLFEGQR	IADNHTPKEL	GMEEDVIEV
Sentrin-2 (57-86)	QIRFRFDGQR	INETDTPAQL	EMEDEDTIDV
Sentrin-3 (56-85)	QIRFRFDGQR	INETDTPAQL	RMEDEDTIDV
NEDD8 (40-69)	QQRLIYS GKQ	MNDEKTAADY	KILGGSVLHL
Ubiquitin (40-69)	QQRLI FAKQ	LEDGRTLSDY	NIQKESTLHL
Sentrin-1 (91-101)	YQEQTGGHSTV		
Sentrin-2 (87-95)	FQQQTGGVY		
Sentrin-3 (86-103)	FQQQTGGVPES	SLAGHSF	
NEDD8 (70-81)	VLALRGGGGLR		
Ubiquitin (70-76)	VLRLRG		

FIG. 12

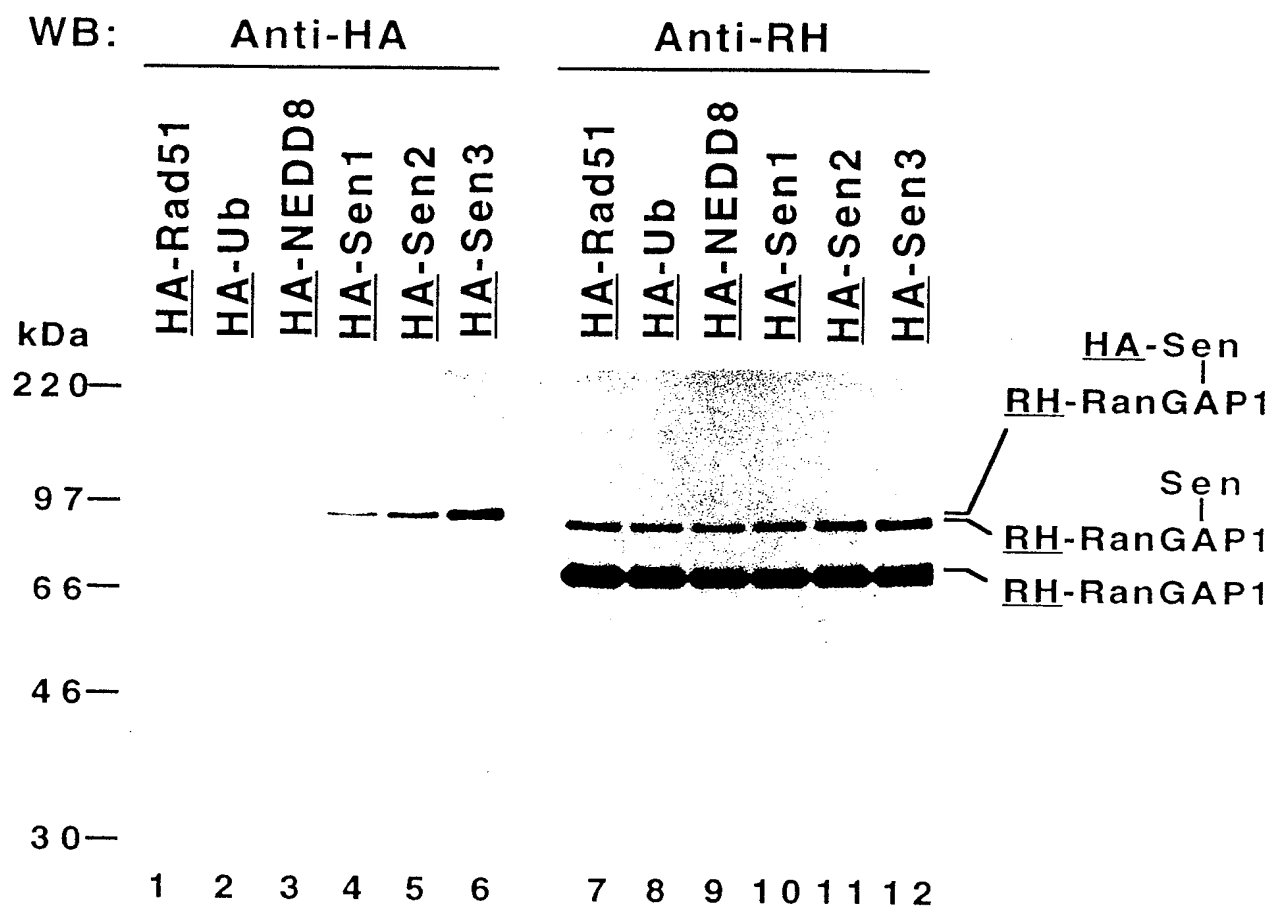


FIG.13A

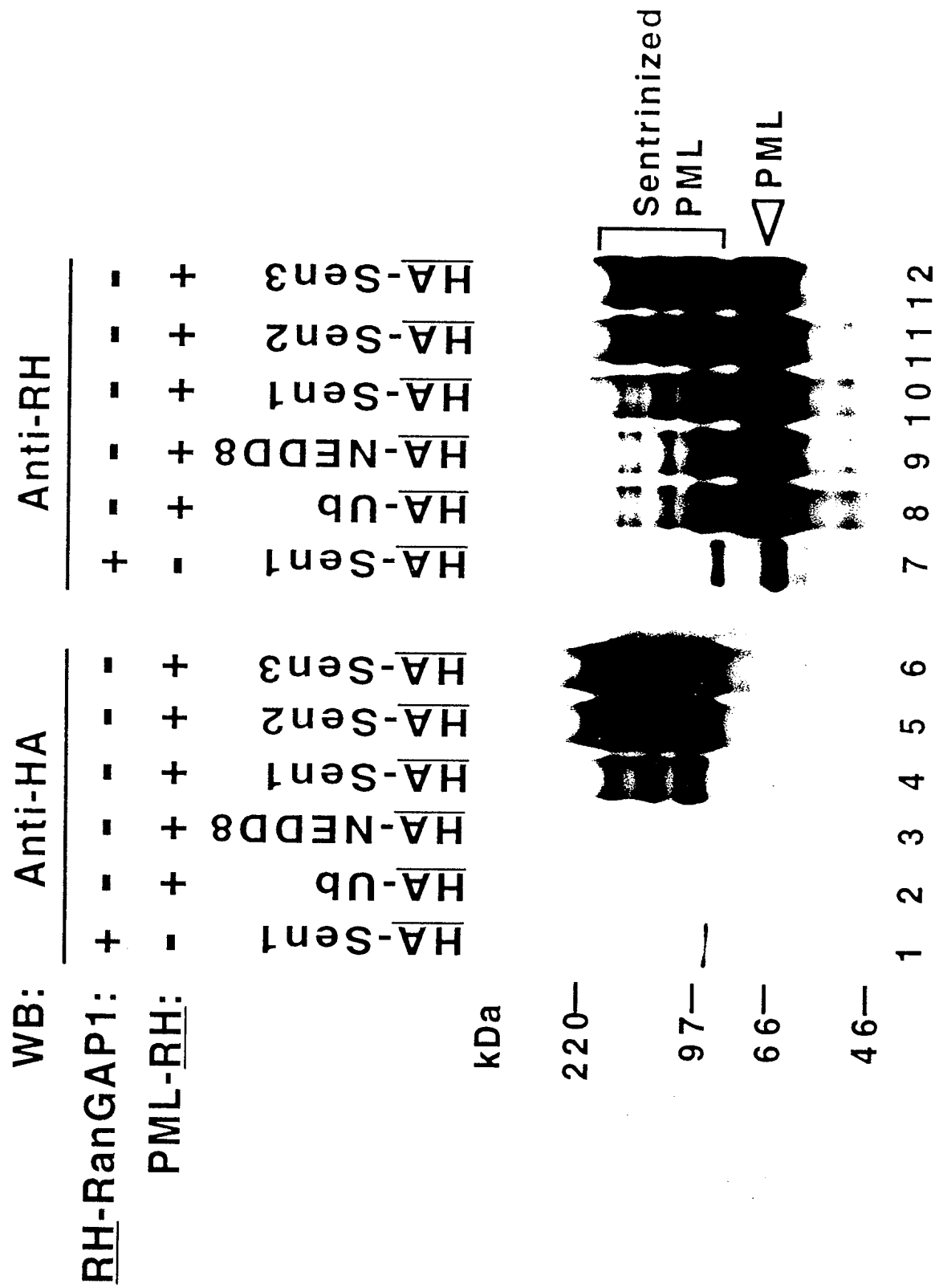


FIG.13B

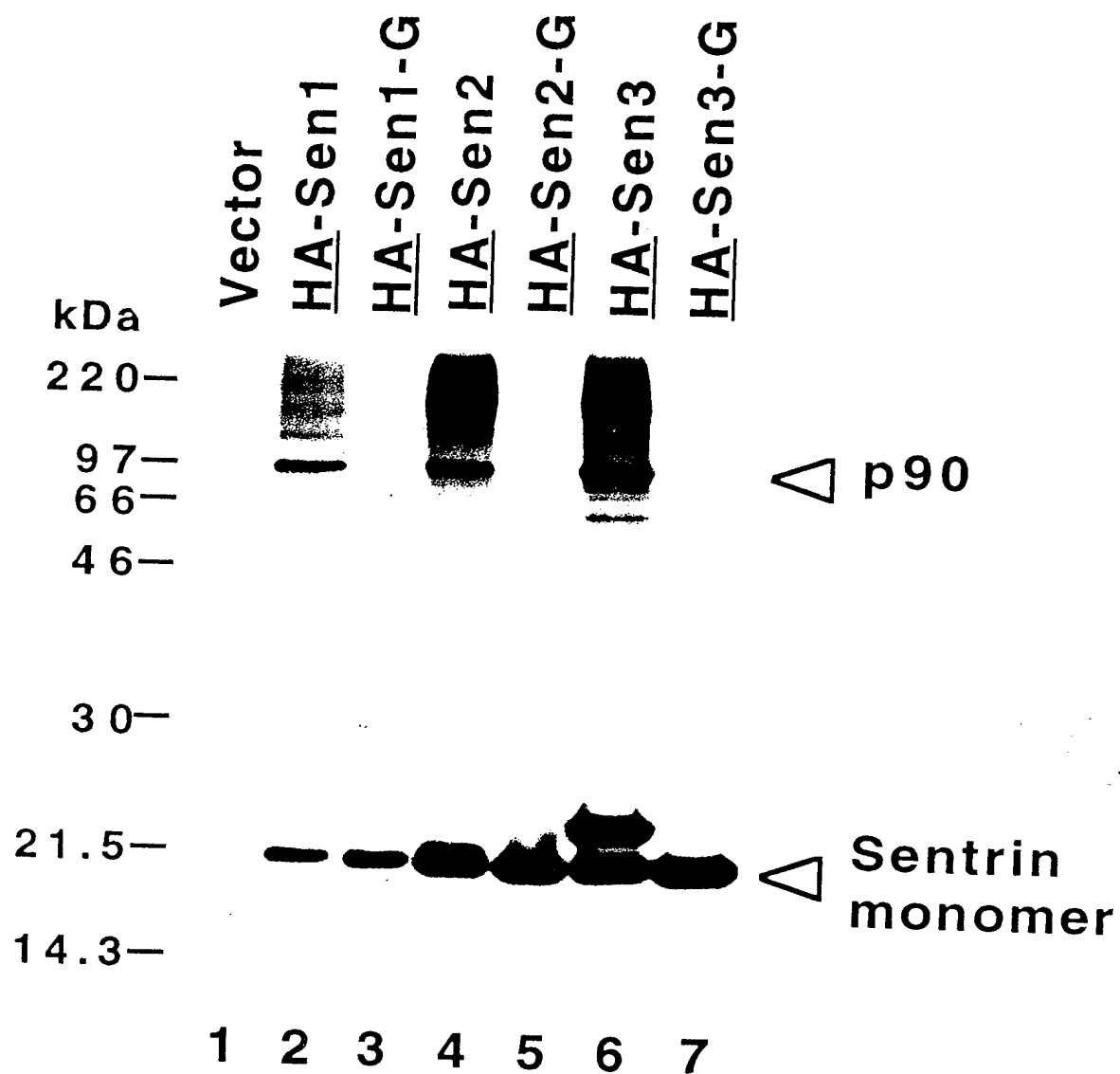


FIG.13C

